

NetCDF Climate Forecast Conventions (CF)

Status

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Outline

- Bad News
 - CF Conventions Moving Slowly
- Good News
 - NOAA Involvement
 - CF Standardisation
 - Gridspec progress
 - Standard Names Growth
- Next Steps
 - New CF Committee
 - New CF meeting?



CF Conventions Progress

Ticket A	Summary	Status	Owner	Туре	Priority	Milestone
24	Common Concept: vocabulary with mapping to CF attributes	new	cf-conventions@lists.llnl.gov	enhancement	medium	
27	Use namespace tags to include other conventions in netcdf files without repeating them in CF	assigned	edavis	enhancement	medium	
29	Common Concept subtopic: CDL as constraint language	new	cf-conventions@lists.llnl.gov	enhancement	medium	
31	Proposal for standard attributes actual_min and actual_max	new	cf-conventions@lists.llnl.gov	enhancement	medium	
33	New cell_method 'count over days'	new	cf-conventions@lists.llnl.gov	enhancement	medium	
37	Conventions for Point Observation Data	new	cf-conventions@lists.llnl.gov	enhancement	medium	
38	Coordinate Systems checks for CF-1.1	new	cf-checker@lists.llnl.gov	task	medium	
43	Upgrade CF checker to CF-1.4	assigned	ros	task	medium	
46	Support for thematic data?	new	cf-standard- names@lists.llnl.gov	task	medium	
47	error in example 7.4	new	cf-conventions@lists.llnl.gov	defect	medium	

Good: only ten open tickets



One to two years on ...

Ticket #24 (new enhancement)

Common Concept: vocabulary with mapping to CF attributes

Opened 2 years ago Last modified 10 months ago

Ticket #27 (assigned enhancement)

Use namespace tags to include other conventions in netcdf files without repeating them in CF

Ticket #29 (new enhancement)

Common Concept subtopic: CDL as constraint lang

Ticket #31 (new enhancement)

You get the picture ...
... the other five are respectively:
1Yr, 1 Yr, 9m, 9m,
5m

Proposal for standard attributes actual_min and actual_max Opened 1 year ago

Ticket #33 (new enhancement)

New cell_method 'count over days'

Opened 1 year ago Last modified 1 year ago



NOAA Involvment

- Strong interest by the US National climate Data Centre to use and promote CF conventions. Ken Roberts will be the person at NCDC who over time will take on CF ...
- · ... initial interest focus on additions to the CF stadard names structure on topics that are of specific interest to NCDC:reanalysis output datasets, satellite observations, in-situ obsevations ...
- · Longer term aim to take on a bigger role in the conventions development by tracking software implementations and moving things from proposals to accepted specifications.
- · Bring to three folks who have (funded part-time) roles in CF governance, with PCMDI, NCDC and BADC all contributing
 - (obviously in addition to major contributions by existing unfunded folks such as Jonathan Gregory etc).



CF standardisation

- Work underway to standardize the netcdf binary format includes:
 - NASA standard, and
 - Work to standardise within the OGC fold.
- This is in part motivated by the ocean community interest in station data standards.

Opportunities:

- Engage a larger community of users.
- Engage a process to move things along.

Threats:

- Loss of control by this community of the process and the results?
- (We can hardly argue that it will slow progress of the convention evolution).



Proposal to Govern Model Metadata

- METAFOR is generating conventions for describing models and simulations.
- Describing hundreds of "parameterisation, model and component" level vocabularies.
- · Currently working with a number of science groups. We'll see the outcome in the CMIP5 questionnaire.
- Long term success of this effort will depend on vocabulary governance.
- Proposal to create a "third" CF standing committee, with TOR aimed at governing the evolution of these vocabularies post CMIP5.



Next Steps

 Really need to improve our procedure for moving CF along

. . .

 Needs more (funded) effort, and needs more community engagement.

Recommendation:

- New CF meeting, in six months or so (~April)
- Do it as a a CF standalone workshop.
- Introduce our new CF NCDC friends (and others) to the old guard.
- Actually do some "convention sprinting"